

Amendment
Application No. 10/519,077
Attorney Docket No. 043056

AMENDMENTS TO THE SPECIFICATION

Please amend the third full paragraph on page 4 (lines 17-24) as follows:

In addition, if the pigment derivative containing an acid group occurs in a composition, when the composition is used as a pigment dispersion-based resist composition for color filters and black matrices, there is a problem that the liquid crystal display screen is defaced as a result of breeding bleeding of a pigment derivative during the alkaline development.

Please amend the paragraph bridging pages 4-5 as follows:

It is an object of the present invention to provide a pigment dispersion composition which can be suitably applied in such fields as color filters, black matrices and ink jet recording where it is necessary to disperse pigments still more finely and which can retain good dispersion stability and temporal stability even when the total amount to be used of at least one species selected from the group consisting of pigment derivatives, pigment intermediates, colorant derivatives and colorant intermediates, and a pigment dispersant is small. Another object is to provide a pigment dispersion-based resist composition which can give color filters high in permeability, excellent in contrast and the like and causing no breeding bleeding or black matrices high in light-shielding and insulating properties, and causing no breeding bleeding. A further object is to provide a pigment-treating compound suited for the treatment of pigments.

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Please amend the paragraph bridging pages 8-9 as follows:

The pigment dispersion composition of the invention is a pigment dispersion composition which is prepared by dispersing a pigment using at least one species selected from the group consisting of a pigment derivative, pigment intermediate, colorant derivative and colorant intermediate each having a functional group reactive with a carbodiimide group and having adsorption ability on the pigment surface, and a carbodiimide compound containing at least one carbodiimide group. Since at least one species selected from the group consisting of the above-mentioned pigment derivative, pigment intermediate, colorant derivative, and colorant intermediate is(are) adsorbed on the pigment surface, and react(s) with the carbodiimide group contained in the carbodiimide compound to form a thick adsorption layer on the pigment surface, the composition becomes to have preferable fluidity and dispersion stability. The functional group reactive with a carbodiimide group contained in the above-mentioned pigment derivative, pigment intermediate, colorant derivative, and colorant intermediate is deleted even if it is an acid group due to the reaction with the carbodiimide group contained in the carbodiimide compound. Therefore, when the compound is used as a pigment dispersion-based resist composition for color filters and black matrices, the problem that the liquid crystal display screen is defaced as a result of breeding bleeding of a pigment derivative, pigment intermediate, colorant derivative or colorant intermediate during the alkaline development can be prevented.

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Please amend the paragraph bridging pages 35-36 as follows:

In either the above method (1) or (2), as for the pigment dispersion composition finally obtained, since at least one species selected from the group consisting of the above-mentioned pigment derivatives, pigment intermediates, colorant derivatives, and colorant intermediates is reacted with a carbodiimide compound, use of this pigment dispersion composition in resist for color filters, etc. can prevent ~~breeding~~ bleeding of the pigment derivative, pigment intermediate, colorant derivative and colorant intermediate on a liquid crystal display screen.

Please amend the first full paragraph on page 36 (lines 5-19) as follows:

In the present invention, the proportion of at [[lease]] least one species selected from the group consisting of the above-mentioned pigment derivatives, pigment intermediates, colorant derivatives and colorant intermediates, with the carbodiimide compound to be used preferably satisfies the condition that at least one species selected from the group consisting of the above-mentioned pigment derivatives, pigment intermediates, colorant derivatives, and colorant intermediates are all introduced into the molecule of the carbodiimide compound by the reaction of the functional group reactive with a carbodiimide group and a carbodiimide group. The proportion is appropriately selected and adjusted mainly according to the species and amount of the above pigments, the species of the dispersion medium to be used, and required characteristics of the applied field.

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Please amend the Section Heading on page 44 (line 9) with the Section Heading as follows:

~~Best Mode for Carrying Out the Invention~~ Detailed Description of the Invention

Please amend the paragraph on page 53, lines 13-19, as follows:

(Breeding Bleeding ability)

To pigment dispersion compositions of Examples 6 to 10 and Comparative Examples 3 to 7 in which a pigment derivative and colorant derivative had been used, water was mixed. Then, water was extracted and evaluated whether being colored according to the criteria given below. The results are shown in Tables 1 and 2.